SUBJECT INDEX

Adaptive systems

Adaptive Forecasting of Hourly Municipal Water Consumption, Chatree Homwongs, Tep Sastri and Joseph W. Foster, III, WR Nov./Dec. 94, p888-905.

Agricultural wastes

Optimal Control of Ground-Water Quality Management: Nonlinear Programming Approach, S. Alireza Taghavi, Richard E. Howitt and Miguel A. Mariño, WR Nov./Dec. 94, p962-982.

Algorithms

Genetic Algorithms Compared to Other Techniques for Pipe Optimization, Angus R. Simpson, Graeme C. Dandy and Laurence J. Murphy, WR July/Aug. 94, p423-443.

Aquifers

Optimal Capacity-Expansion Planning in Multiaquifer Systems, Hakan Başağaoğlu and Hasan Yazıcıgil, WR Nov./Dec. 94, p836-856.

Partial Infeasibility Method for Chance-Constrained Aquifer Management, Nathan Chan, WR Jan./Feb. 94, p70-89.

Risk Management in Wellhead Protection, David A. Chin and Prasad V. K. Chittaluru, WR May/June 94, p294-315.

Arid lands

Effectiveness of Water-Conservation Measures in Greater Athens Area, Helen Briassoulis, WR Nov./Dec. 94, p764-777.

Artificial recharge

Management of Recharge Dams in Saudi Arabia, Fouad F. Al-Muttair, Uygur Sendil and Abdulaziz S. Al-Turbak, WR Nov./Dec. 94, p749-763.

Auto-regressive moving-average model

Effectiveness of Water-Conservation Measures in Greater Athens Area, Helen Briassoulis, WR Nov./Dec. 94, p764-777.

Bayesian analysis

Demand-Driven Operation of Reservoirs Using Uncertainty-Based Optimal Operating Policies, Haralambos V. Vasiliadis and Mohammad Karamouz, WR Jan./Feb. 94, p101-114.

Benefit cost analysis

Market Models, Protest Bids, and Outliers in Contingent Valuation, Greg Lindsey, WR Jan./Feb. 94, p121-129.

Bond issues

Changing Conditions and Water Elections, Charles H. Lawrance, James M. Stubchaer and Jon A. Ahlroth, WR July/Aug. 94, p458-475.

Calibration

Estimation of Peak Flow and Runoff Volume with Response Surface Method, Shie-Yui Liong and Yaacob Ibrahim, WR Mar./Apr. 94, p161-175.

California

Changing Conditions and Water Elections, Charles H. Lawrance, James M. Stubchaer and Jon A. Ahlroth, WR July/Aug. 94, p458-475.

Capacity

Optimal Capacity-Expansion Planning in Multiaquifer Systems, Hakan Başağaoğlu and Hasan Yazıcıgil, WR Nov./Dec. 94, p836-856.

Case reports

Reliability of Flood Warning Systems, Roman Krzysztofowicz, Karen S. Kelly and Dou Long, WR Nov./Dec. 94, p906-926.

Catchments

Computational Discretization Effect on Rainfall-Runoff Simulation, Edward Mazion, Jr. and Ben Chie Yen, WR Sept./Oct. 94, p715-734.

Estimation of Peak Flow and Runoff Volume with Response Surface Method, Shie-Yui Liong and Yaacob Ibrahim, WR Mar./Apr. 94, p161-175.

Channelization

Kissimmee River Restoration Study, Hsieh Wen Shen, Guillermo Tabios, III and James A. Harder, WR May/June 94, p330-349.

Chlorine

Measuring and Modeling Chlorine Propagation in Water Distribution Systems, Robert M. Clark, Walter M. Grayman, James A. Goodrich, Rolf A. Deininger and Kenneth Skov, WR Nov./Dec. 94, p871-887.

Circulation

Diffusion Hydrodynamic Model of Shallow Estuary, G. L. Guymon, M. N. Khan, M. Collins and T. V. Hromadka, WR Mar./Apr. 94, p253-266.

Climatic changes

Adaptive Forecasting of Hourly Municipal Water Consumption, Chatree Homwongs, Tep Sastri and Joseph W. Foster, III, WR Nov./Dec. 94, p888-905.

Effects of Global Warming on Hurricane-Induced Flooding, William J. Gutowski, George F. McMahon, Shing S. Schluchter and Paul H. Kirshen, WR Mar./Apr. 94, p176-185.

Evaporation and Evapotranspiration under Climate Change in New England, Neil M. Fennessey and Paul H. Kirshen, WR Jan./Feb. 94, p48-69.

Climatology

Susceptibility of Reservoirs to Drought Using Palmer Index, William K. Johnson and Roger W. Kohne, WR May/June 93, p367-387.

Confidence intervals

Flow-Duration Curves I: New Interpretation and Confidence Intervals, Richard M. Vogel and Neil M. Fennessey, WR July/Aug. 94, p485-504.

Conservation
Optimal Pump Operations Considering Pump Switches, Kevin E. Lansey and Kofi Awumah, WR Jan./Feb. 94, p17-35.

Contaminants
Partial Infeasibility Method for Chance-Constrained Aquifer Management, Nathan Chan, WR Jan./Feb. 94, p70-89.

Control
Applications of Optimal Hydraulic Control to Ground-Water Systems, David P. Ahlfeld and Manoutchehr Heidari, WR May/June 94, p350-365.

Control systems
Data Management for Large-Scale Water-Distribution Optimization Systems, S. Pezeshk, WR Jan./Feb. 94, p116-120.

Optimal Control of Water-Supply Pumping Systems, Lindell E. Ormsbee and Kevin E. Lansey, WR Mar./Apr. 94, p237-252.

Cost minimization
Optimal Operation of Ground-Water Supply Distribution Systems, S. Pezeshk, O. J. Helweg and K. E. Oliver, WR Sept./Oct. 94, p573-586.

Optimal Rehabilitation Model for Water-Distribution Systems, Joong Hoon Kim and Larry W. Mays, WR Sept./Oct. 94, p674-692.

Redundancy-Constrained Minimum-Cost Design of Water-Distribution Nets, Heekyung Park and Jon C. Liebman, WR Jan./Feb. 93, p83-98.

Costs
Ranking Ground-water Management Alternatives by Multicriterion Analysis, Lucien Duckstein, Wiktor Treichel and Samir El Magnouni, WR July/Aug. 94, p546-565.

Court decisions
Jury Verdict: Frequency versus Risk-Based Culvert Design, Gary L. Lewis, WR Mar./Apr. 92, p166-184.

Culverts
Jury Verdict: Frequency versus Risk-Based Culvert Design, Gary L. Lewis, WR Mar./Apr. 92, p166-184.

Dam construction
Optimizing River Diversion under Hydraulic and Hydrologic Uncertainties, Abbas Afshar, Ahmad Barkhordary and Miguel A. Mariño, WR Jan./Feb. 94, p36-47.

Damage prevention
Relationships between *n*-Day Flood Volumes for Infrequent Large Floods, James B. Balocki and Stephen J. Burges, WR Nov./Dec. 94, p794-818.

Dams
Management of Recharge Dams in Saudi Arabia, Fouad F. Al-Muttair, Uygur Sendil and Abdulaziz S. Al-Turbak, WR Nov./Dec. 94, p749-763.

Data collection
Drought and Water-Supply Management: Roles and Responsibilities, Neil S. Grigg and Evan C. Vlachos, WR Sept./Oct. 93, p531-541.

Data processing
Data Management for Large-Scale Water-Distribution Optimization Systems, S. Pezeshk, WR Jan./Feb. 94, p116-120.

Data retrieval
Water-Quality Data Management: Survey of Current Trends, Laurel Saito, Neil S. Grigg and Robert C. Ward, WR Sept./Oct. 94, p587-612.

Data systems
Water-Quality Data Management: Survey of Current Trends, Laurel Saito, Neil S. Grigg and Robert C. Ward, WR Sept./Oct. 94, p587-612.

Database management systems
Data Management for Large-Scale Water-Distribution Optimization Systems, S. Pezeshk, WR Jan./Feb. 94, p116-120.

Water-Quality Data Management: Survey of Current Trends, Laurel Saito, Neil S. Grigg and Robert C. Ward, WR Sept./Oct. 94, p587-612.

Decision making
Ranking Ground-water Management Alternatives by Multicriterion Analysis, Lucien Duckstein, Wiktor Treichel and Samir El Magnouni, WR July/Aug. 94, p546-565.

Desalination
Goal Programming Model for Distributing and Blending Desalinized Water, Abdulaziz S. Alidi and Taqi N. Al-Faraj, WR May/June 94, p267-275.

Design
Redundancy-Constrained Minimum-Cost Design of Water-Distribution Nets, Heekyung Park and Jon C. Liebman, WR Jan./Feb. 93, p83-98.

Design criteria
Incorporating Economic Analysis in Irrigation Design and Management, Ujjayant Chakravorty and James Roumasset, WR Nov./Dec. 94, p819-835.

Jury Verdict: Frequency versus Risk-Based Culvert Design, Gary L. Lewis, WR Mar./Apr. 92, p166-184.

Design events
Relationships between *n*-Day Flood Volumes for Infrequent Large Floods, James B. Balocki and Stephen J. Burges, WR Nov./Dec. 94, p794-818.

Developing countries
Policy on Private Water Sales in Rural Ghana, Fred O. Boadu, WR Nov./Dec. 94, p944-961.

Development
Changing Conditions and Water Elections, Charles H. Lawrance, James M. Stubchaer and Jon A. Ahlroth, WR July/Aug. 94, p458-475.

Diversion structures
Optimizing River Diversion under Hydraulic and Hydrologic Uncertainties, Abbas Afshar, Ahmad Barkhordary and Miguel A. Mariño, WR Jan./Feb. 94, p36-47.

Drainage
Jury Verdict: Frequency versus Risk-Based Culvert Design, Gary L. Lewis, WR Mar./Apr. 92, p166-184.

Role of Urban Storm-Flow Volume in Local Drainage Problems, Bruce K. Ferguson and Tamas Deak, WR July/Aug. 94, p523-530.

Droughts

Drought and Water-Supply Management: Roles and Responsibilities. Neil S. Grigg and Evan C. Vlachos, WR Sept./Oct. 93, p531-541.

Performance of Integrated Municipal Water System During Drought, Radwan A. Al-Mubarak Al-Weshah and Douglas T. Shaw, WR July/Aug. 94, p531-545.

Susceptibility of Reservoirs to Drought Using Palmer Index, William K. Johnson and Roger W. Kohne, WR May/June 93, p367-387.

Water-Supply Operations during Drought: Continuous Hedging Rule, Jhih-Shyang Shih and Charles ReVelle, WR Sept./Oct. 94, p613-629.

Dynamic programming

Conjunctive Operation of Hydroelectric and Thermal Power Plants, Ricardo Harboe, Tirtha Raj Gautam and Pushpa Raj Onta, WR Nov./Dec. 94, p778-793.

Optimal Pump Operations Considering Pump Switches, Kevin E. Lansey and Kofi Awumah, WR Jan./Feb. 94, p17-35.

Ecology

Freshwater-Inflow Need of Estuary Computed by Texas Estuarine MP Model, Junji Matsumoto, Gary Powell and David Brock, WR Sept./Oct. 94, p693-714.

Kissimmee River Restoration Study, Hsieh Wen Shen, Guillermo Tabios, III and James A. Harder, WR May/June 94, p330-349.

Economic analysis

Incorporating Economic Analysis in Irrigation Design and Management, Ujjayant Chakravorty and James Roumasset, WR Nov./Dec. 94, p819-835.

Economic factors

Optimal Capacity-Expansion Planning in Multiaquifer Systems, Hakan Başağaoğlu and Hasan Yazıcıgil, WR Nov./Dec. 94, p836-856.

Economics

Governmental Priorities in Irrigation Project Selection in Indonesia, Sutardi and I. C. Goulter, WR May/June 93, p406-411.

Environmental impacts

Kissimmee River Restoration Study, Hsieh Wen Shen, Guillermo Tabios, III and James A. Harder, WR May/June 94, p330-349.

Risk Management in Wellhead Protection, David A. Chin and Prasad V. K. Chittaluru, WR May/June 94, p294-315.

Environmental issues

Cooperative Ground-Water Resources Management: Local Perspective, Amleto A. Pucci, Jr., WR Nov./Dec. 94, p984-991.

Estimation

Parameter Estimation in Water-Distribution Systems by Least Squares, R. S. N. Datta and K. Sridharan, WR July/Aug. 94, p405-422.

Estuaries

Diffusion Hydrodynamic Model of Shallow Estuary, G. L. Guymon, M. N. Khan, M. Collins and T. V. Hromadka, WR Mar./Apr. 94, p253-266.

Freshwater-Inflow Need of Estuary Computed by Texas Estuarine MP Model, Junji Matsumoto, Gary Powell and David Brock, WR Sept./Oct. 94, p693-714.

Goal Programming Models for Determining Freshwater Inflows to Estuaries, Ning Mao and Larry W. Mays, WR May/June 94, p316-329.

New Methodology for Optimization of Freshwater Inflows to Estuaries, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p199-217.

Optimization of Freshwater Inflows to Lavaca-Tres Palacios, Texas, Estuary, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p218-236.

Evaporation

Evaporation and Evapotranspiration under Climate Change in New England, Neil M. Fennessey and Paul H. Kirshen, WR Jan./Feb. 94, p48-69.

Evapotranspiration

Evaporation and Evapotranspiration under Climate Change in New England, Neil M. Fennessey and Paul H. Kirshen, WR Jan./Feb. 94, p48-69.

Failures

Predicting Pipe Failure Effects in Water Distribution Networks, P. W. Jowitt and Chengchao Xu, WR Jan./Feb. 93, p18-31.

Finite element method

Modeling of Infiltration from Trenches for Storm-Water Control, Michael Duchene, Edward A. McBean and Neil R. Thomson, WR May/June 94, p276-293.

Ranking Ground-water Management Alternatives by Multicriterion Analysis, Lucien Duckstein, Wiktor Treichel and Samir El Magnouni, WR July/Aug. 94, p546-565.

Fish management

Goal Programming Models for Determining Freshwater Inflows to Estuaries, Ning Mao and Larry W. Mays, WR May/June 94, p316-329.

Fisheries

Goal Programming Models for Determining Freshwater Inflows to Estuaries, Ning Mao and Larry W. Mays, WR May/June 94, p316-329.

New Methodology for Optimization of Freshwater Inflows to Estuaries, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p199-217.

Optimization of Freshwater Inflows to Lavaca-Tres Palacios, Texas, Estuary, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p218-236.

Flood control

Effects of Global Warming on Hurricane-Induced Flooding, William J. Gutowski, George F. McMahon, Shing S. Schluchter and Paul H. Kirshen, WR Mar./Apr. 94, p176-185.

Kissimmee River Restoration Study, Hsieh Wen Shen, Guillermo Tabios, III and James A. Harder, WR May/June 94, p330-349.

Flood damage

Evaluating Risk of Extreme Events for Univariate-Loss Functions, James H. Lambert and Duan Li, WR May/June 94, p382-399.

Relationships between *n*-Day Flood Volumes for Infrequent Large Floods, James B. Balocki and Stephen J. Burges, WR Nov./Dec. 94, p794-818.

Flood forecasting

Reliability of Flood Warning Systems, Roman Krzysztofowicz, Karen S. Kelly and Dou Long, WR Nov./Dec. 94, p906-926.

Flood frequency

Relationships between *n*-Day Flood Volumes for Infrequent Large Floods, James B. Balocki and Stephen J. Burges, WR Nov./Dec. 94, p794-818.

Flood hydrology

Relationships between *n*-Day Flood Volumes for Infrequent Large Floods, James B. Balocki and Stephen J. Burges, WR Nov./Dec. 94, p794-818.

Floods

Evaluating Risk of Extreme Events for Univariate-Loss Functions, James H. Lambert and Duan Li, WR May/June 94, p382-399.

Jury Verdict: Frequency versus Risk-Based Culvert Design, Gary L. Lewis, WR Mar./Apr. 92, p166-184.

Mulitlevel Model for Gage and Paleoflood Data, Ellen W. Stevens, WR July/Aug. 94, p444-457.

Relationships between *n*-Day Flood Volumes for Infrequent Large Floods, James B. Balocki and Stephen J. Burges, WR Nov./Dec. 94, p794-818.

Reliability of Flood Warning Systems, Roman Krzysztofowicz, Karen S. Kelly and Dou Long, WR Nov./Dec. 94, p906-926.

Station-Year Approach: Tool for Estimation of Design Floods, Henri Garros-Berthet, WR Mar./Apr. 94, p135-160.

Florida

Kissimmee River Restoration Study, Hsieh Wen Shen, Guillermo Tabios, III and James A. Harder, WR May/June 94, p330-349.

Flow

Role of Urban Storm-Flow Volume in Local Drainage Problems, Bruce K. Ferguson and Tamas Deak, WR July/Aug. 94, p523-530.

Flow distribution

Mulitlevel Model for Gage and Paleoflood Data, Ellen W. Stevens, WR July/Aug. 94, p444-457.

Flow duration curves

Flow-Duration Curves I: New Interpretation and Confidence Intervals, Richard M. Vogel and Neil M. Fennessey, WR July/Aug. 94, p485-504.

Flow rates

Diffusion Hydrodynamic Model of Shallow Estuary, G. L. Guymon, M. N. Khan, M. Collins and T. V. Hromadka, WR Mar./Apr. 94, p253-266.

Forecasting

Adaptive Forecasting of Hourly Municipal Water Consumption, Chatree Homwongs, Tep Sastri and Joseph W. Foster, III, WR Nov./Dec. 94, p888-905.

Fresh water

Freshwater-Inflow Need of Estuary Computed by Texas Estuarine MP Model, Junji Matsumoto, Gary Powell and David Brock, WR Sept./Oct. 94, p693-714.

New Methodology for Optimization of Freshwater Inflows to Estuaries, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p199-217.

Optimization of Freshwater Inflows to Lavaca-Tres Palacios, Texas, Estuary, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p218-236.

Geographic information systems

Efficacy of ARC/INFO GIS Application to Hydrologic Modeling, J. J. Warwick and S. J. Haness, WR May/June 94, p366-381.

Nonpoint-Pollution Model Sensitivity to Grid-Cell Size, Baxter E. Vieux and Scott Needham, WR Mar./Apr. 93, p141-157.

Global warming

Effects of Global Warming on Hurricane-Induced Flooding, William J. Gutowski, George F. McMahon, Shing S. Schluchter and Paul H. Kirshen, WR Mar./Apr. 94, p176-185.

Goals

Goal Programming Model for Distributing and Blending Desalinized Water, Abdulaziz S. Alidi and Taqi N. Al-Faraj, WR May/June 94, p267-275.

Government agencies

Water-Quality Data Management: Survey of Current Trends, Laurel Saito, Neil S. Grigg and Robert C. Ward, WR Sept./Oct. 94, p587-612.

Government role

Drought and Water-Supply Management: Roles and Responsibilities, Neil S. Grigg and Evan C. Vlachos, WR Sept./Oct. 93, p531-541.

Grid systems

Nonpoint-Pollution Model Sensitivity to Grid-Cell Size, Baxter E. Vieux and Scott Needham, WR Mar./Apr. 93, p141-157.

Ground water

Applications of Optimal Hydraulic Control to Ground-Water Systems, David P. Ahlfeld and Manoutchehr Heidari, WR May/June 94, p350-365.

Mulitvariate Geostatistical Design of Ground-Water Monitoring Networks, Fethi Ben-Jemaa, Miguel A. Mariño and Hugo A. Loaiciga, WR July/Aug. 94, p505-522.

Risk Management in Wellhead Protection, David A. Chin and Prasad V. K. Chittaluru, WR May/June 94, p294-315.

Unsaturated Flow Modeling—Exact Solution to Approximate Problem? Lakshmi N. Reddi and Sampath K. R. Danda, WR Mar./Apr. 94, p186-198.

Ground-water management

Applications of Optimal Hydraulic Control to Ground-Water Systems, David P. Ahlfeld and Manoutchehr Heidari, WR May/June 94, p350-365.

Partial Infeasibility Method for Chance-Constrained Aquifer Management, Nathan Chan, WR Jan./Feb. 94, p70-89.

Ranking Ground-water Management Alternatives by Multicriterion Analysis, Lucien Duckstein, Wiktor Treichel and Samir El Magnouni, WR July/Aug. 94, p546-565.

Ground-water quality

Cooperative Ground-Water Resources Management: Local Perspective, Amleto A. Pucci, Jr., WR Nov./Dec. 94, p984-991.

Optimal Control of Ground-Water Quality Management: Nonlinear Programming Approach, S. Alireza Taghavi, Richard E. Howitt and Miguel A. Mariño, WR Nov./Dec. 94, p962-982.

Risk Management in Wellhead Protection, David A. Chin and Prasad V. K. Chittaluru, WR May/June 94, p294-315.

Ground-water recharge

Unsaturated Flow Modeling—Exact Solution to Approximate Problem? Lakshmi N. Reddi and Sampath K. R. Danda, WR Mar./Apr. 94, p186-198.

Ground-water supply

Optimal Operation of Ground-Water Supply Distribution Systems, S. Pezeshk, O. J. Helweg and K. E. Oliver, WR Sept./Oct. 94, p573-586.

Hurricanes

Effects of Global Warming on Hurricane-Induced Flooding, William J. Gutowski, George F. McMahon, Shing S. Schluchter and Paul H. Kirshen, WR Mar./Apr. 94, p176-185.

Hydraulics

Applications of Optimal Hydraulic Control to Ground-Water Systems, David P. Ahlfeld and Manoutchehr Heidari, WR May/June 94, p350-365.

Optimal Control of Water-Supply Pumping Systems, Lindell E. Ormsbee and Kevin E. Lansey, WR Mar./Apr. 94, p237-252.

Optimal Rehabilitation Model for Water-Distribution Systems, Joong Hoon Kim and Larry W. Mays, WR Sept./Oct. 94, p674-692.

Optimizing River Diversion under Hydraulic and Hydrologic Uncertainties, Abbas Afshar, Ahmad Barkhordary and Miguel A. Mariño, WR Jan./Feb. 94, p36-47.

Partial Infeasibility Method for Chance-Constrained Aquifer Management, Nathan Chan, WR Jan./Feb. 94, p70-89.

Hydrodynamics

Diffusion Hydrodynamic Model of Shallow Estuary, G. L. Guymon, M. N. Khan, M. Collins and T. V. Hromadka, WR Mar./Apr. 94, p253-266.

New Methodology for Optimization of Freshwater Inflows to Estuaries, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p199-217.

Optimization of Freshwater Inflows to Lavaca-Tres Palacios, Texas, Estuary, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p218-236.

Hydroelectric powerplants

Conjunctive Operation of Hydroelectric and Thermal Power Plants, Ricardo Harboe, Tirtha Raj Gautam and Pushpa Raj Onta, WR Nov./Dec. 94, p778-793.

Hydrographs

Relationships between *n*-Day Flood Volumes for Infrequent Large Floods, James B. Balocki and Stephen J. Burges, WR Nov./Dec. 94, p794-818.

Hydrologic models

Efficacy of ARC/INFO GIS Application to Hydrologic Modeling, J. J. Warwick and S. J. Haness, WR May/June 94, p366-381.

Hydrology

Effects of Global Warming on Hurricane-Induced Flooding, William J. Gutowski, George F. McMahon, Shing S. Schluchter and Paul H. Kirshen, WR Mar./Apr. 94, p176-185.

Evaporation and Evapotranspiration under Climate Change in New England, Neil M. Fennessey and Paul H. Kirshen, WR Jan./Feb. 94, p48-69.

Flow-Duration Curves I: New Interpretation and Confidence Intervals, Richard M. Vogel and Neil M. Fennessey, WR July/Aug. 94, p485-504.

Station-Year Approach: Tool for Estimation of Design Floods, Henri Garros-Berthet, WR Mar./Apr. 94, p135-160.

Identification

Unsaturated Flow Modeling—Exact Solution to Approximate Problem? Lakshmi N. Reddi and Sampath K. R. Danda, WR Mar./Apr. 94, p186-198.

Indonesia

Governmental Priorities in Irrigation Project Selection in Indonesia, Sutardi and I. C. Goulter, WR May/June 93, p406-411.

Station-Year Approach: Tool for Estimation of Design Floods, Henri Garros-Berthet, WR Mar./Apr. 94, p135-160.

Infiltration

Modeling of Infiltration from Trenches for Storm-Water Control, Michael Duchene, Edward A. McBean and Neil R. Thomson, WR May/June 94, p276-293.

Optimum Operation of Recharge Basins, Hasan Mushtaq, Larry W. Mays and Kevin E. Lansey, WR Nov./Dec. 94, p927-943.

Inflow

Freshwater-Inflow Need of Estuary Computed by Texas Estuarine MP Model, Junji Matsumoto, Gary Powell and David Brock, WR Sept./Oct. 94, p693-714.

New Methodology for Optimization of Freshwater Inflows to Estuaries, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p199-217.

Optimization of Freshwater Inflows to Lavaca-Tres Palacios, Texas, Estuary, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p218-236.

Information management
Water-Quality Data Management: Survey of Current Trends, Laurel Saito, Neil S. Grigg and Robert C. Ward, WR Sept./Oct. 94, p587-612.

Irrigation programs
Governmental Priorities in Irrigation Project Selection in Indonesia, Sutardi and I. C. Goulter, WR May/June 93, p406-411.

Irrigation systems
Incorporating Economic Analysis in Irrigation Design and Management, Ujjayant Chakravorty and James Roumasset, WR Nov./Dec. 94, p819-835.

Kalman filter
Adaptive Forecasting of Hourly Municipal Water Consumption, Chatree Homwongs, Tep Sastri and Joseph W. Foster, III, WR Nov./Dec. 94, p888-905.

Streamflow Forecasting for Han River Basin, Korea, Haitham M. Awwad, Juan B. Valdés and Pedro J. Restrepo, WR Sept./Oct. 94, p651-673.

Korea
Streamflow Forecasting for Han River Basin, Korea, Haitham M. Awwad, Juan B. Valdés and Pedro J. Restrepo, WR Sept./Oct. 94, p651-673.

Least squares method
Parameter Estimation in Water-Distribution Systems by Least Squares, R. S. N. Datta and K. Sridharan, WR July/Aug. 94, p405-422.

Linear programming
Optimal Operation of Multiple-Reservoir System, Philip D. Crawley and Graeme C. Dandy, WR Jan./Feb. 93, p1-17.

Local governments
Cooperative Ground-Water Resources Management: Local Perspective, Amleto A. Pucci, Jr., WR Nov./Dec. 94, p984-991.

Malaysia
Station-Year Approach: Tool for Estimation of Design Floods, Henri Garros-Berthet, WR Mar./Apr. 94, p135-160.

Market research
Market Models, Protest Bids, and Outliers in Contingent Valuation, Greg Lindsey, WR Jan./Feb. 94, p121-129.

Mathematical models
Freshwater-Inflow Need of Estuary Computed by Texas Estuarine MP Model, Junji Matsumoto, Gary Powell and David Brock, WR Sept./Oct. 94, p693-714.

Modeling of Infiltration from Trenches for Storm-Water Control, Michael Duchene, Edward A. McBean and Neil R. Thomson, WR May/June 94, p276-293.

Predicting Sediment Yield in Storm-Water Runoff from Urban Areas, Thomas W. Haster and Wesley P. James, WR Sept./Oct. 94, p630-650.

Mixing
Goal Programming Model for Distributing and Blending Desalinized Water, Abdulaziz S. Alidi and Taqi N. Al-Faraj, WR May/June 94, p267-275.

Model verification
Estimation of Peak Flow and Runoff Volume with Response Surface Method, Shie-Yui Liong and Yaacob Ibrahim, WR Mar./Apr. 94, p161-175.

Modeling
Measuring and Modeling Chlorine Propagation in Water Distribution Systems, Robert M. Clark, Walter M. Grayman, James A. Goodrich, Rolf A. Deininger and Kenneth Skov, WR Nov./Dec. 94, p871-887.

Unsaturated Flow Modeling—Exact Solution to Approximate Problem? Lakshmi N. Reddi and Sampath K. R. Danda, WR Mar./Apr. 94, p186-198.

Models
Bromine Distribution Factors in THM Formation, Paul H. Hutton and Francis I. Chung, WR Jan./Feb. 94, p1-16.

Computational Discretization Effect on Rainfall-Runoff Simulation, Edward Mazion, Jr. and Ben Chie Yen, WR Sept./Oct. 94, p715-734.

Diffusion Hydrodynamic Model of Shallow Estuary, G. L. Guymon, M. N. Khan, M. Collins and T. V. Hromadka, WR Mar./Apr. 94, p253-266.

Efficacy of ARC/INFO GIS Application to Hydrologic Modeling, J. J. Warwick and S. J. Haness, WR May/June 94, p366-381.

Mulitlevel Model for Gage and Paleoflood Data, Ellen W. Stevens, WR July/Aug. 94, p444-457.

Nonpoint-Pollution Model Sensitivity to Grid-Cell Size, Baxter E. Vieux and Scott Needham, WR Mar./Apr. 93, p141-157.

Optimal Capacity-Expansion Planning in Multiaquifer Systems, Hakan Başağaoğlu and Hasan Yazıcıgil, WR Nov./Dec. 94, p836-856.

Optimal Control of Ground-Water Quality Management: Nonlinear Programming Approach, S. Alireza Taghavi, Richard E. Howitt and Miguel A. Mariño, WR Nov./Dec. 94, p962-982.

Time-Series Modeling for Long-Range Stream-Flow Forecasting, Michael Bender and Slobodan Simonovic, WR Nov./Dec. 94, p857-870.

Monitoring
Mulitvariate Geostatistical Design of Ground-Water Monitoring Networks, Fethi Ben-Jemaa, Miguel A. Mariño and Hugo A. Loaiciga, WR July/Aug. 94, p505-522.

Multiple objective analysis
Freshwater-Inflow Need of Estuary Computed by Texas Estuarine MP Model, Junji Matsumoto, Gary Powell and David Brock, WR Sept./Oct. 94, p693-714.

Goal Programming Models for Determining Freshwater Inflows to Estuaries, Ning Mao and Larry W. Mays, WR May/June 94, p316-329.

Optimal Capacity-Expansion Planning in Multiaquifer Systems, Hakan Başağaoğlu and Hasan Yazıcıgil, WR Nov./Dec. 94, p836-856.

Multiple regressions

Assessing Nassau County's Water Conservation Program, Mark Maimone and Michael Labiak, WR Jan./Feb. 94, p90-100.

Municipal engineering

Cooperative Ground-Water Resources Management: Local Perspective, Amleto A. Pucci, Jr., WR Nov./Dec. 94, p984-991.

Municipal water

Adaptive Forecasting of Hourly Municipal Water Consumption, Chatree Homwongs, Tep Sastri and Joseph W. Foster, III, WR Nov./Dec. 94, p888-905.

Performance of Integrated Municipal Water System During Drought, Radwan A. Al-Mubarak Al-Weshah and Douglas T. Shaw, WR July/Aug. 94, p531-545.

Network analysis

Predicting Pipe Failure Effects in Water Distribution Networks, P. W. Jowitt and Chengchao Xu, WR Jan./Feb. 93, p18-31.

Network design

Mulitvariate Geostatistical Design of Ground-Water Monitoring Networks, Fethi Ben-Jemaa, Miguel A. Mariño and Hugo A. Loaiciga, WR July/Aug. 94, p505-522.

New England

Evaporation and Evapotranspiration under Climate Change in New England, Neil M. Fennessey and Paul H. Kirshen, WR Jan./Feb. 94, p48-69.

Nonlinear programming

Genetic Algorithms Compared to Other Techniques for Pipe Optimization, Angus R. Simpson, Graeme C. Dandy and Laurence J. Murphy, WR July/Aug. 94, p423-443.

Goal Programming Models for Determining Freshwater Inflows to Estuaries, Ning Mao and Larry W. Mays, WR May/June 94, p316-329.

New Methodology for Optimization of Freshwater Inflows to Estuaries, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p199-217.

Optimal Control of Ground-Water Quality Management: Nonlinear Programming Approach, S. Alireza Taghavi, Richard E. Howitt and Miguel A. Mariño, WR Nov./Dec. 94, p962-982.

Optimal Rehabilitation Model for Water-Distribution Systems, Joong Hoon Kim and Larry W. Mays, WR Sept./Oct. 94, p674-692.

Optimization of Freshwater Inflows to Lavaca-Tres Palacios, Texas, Estuary, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p218-236.

Water-Supply Operations during Drought: Continuous Hedging Rule, Jhih-Shyang Shih and Charles ReVelle, WR Sept./Oct. 94, p613-629.

Nonpoint pollution

Nonpoint-Pollution Model Sensitivity to Grid-Cell Size, Baxter E. Vieux and Scott Needham, WR Mar./Apr. 93, p141-157.

Operating criteria

Water-Supply Operations during Drought: Continuous Hedging Rule, Jhih-Shyang Shih and Charles ReVelle, WR Sept./Oct. 94, p613-629.

Operation

Optimal Control of Water-Supply Pumping Systems, Lindell E. Ormsbee and Kevin E. Lansey, WR Mar./Apr. 94, p237-252.

Optimum Operation of Recharge Basins, Hasan Mushtaq, Larry W. Mays and Kevin E. Lansey, WR Nov./Dec. 94, p927-943.

Optimal control methods

Optimal Control of Ground-Water Quality Management: Nonlinear Programming Approach, S. Alireza Taghavi, Richard E. Howitt and Miguel A. Mariño, WR Nov./Dec. 94, p962-982.

Optimization

Applications of Optimal Hydraulic Control to Ground-Water Systems, David P. Ahlfeld and Manoutchehr Heidari, WR May/June 94, p350-365.

Conjunctive Operation of Hydroelectric and Thermal Power Plants, Ricardo Harboe, Tirtha Raj Gautam and Pushpa Raj Onta, WR Nov./Dec. 94, p778-793.

Data Management for Large-Scale Water-Distribution Optimization Systems, S. Pezeshk, WR Jan./Feb. 94, p116-120.

Genetic Algorithms Compared to Other Techniques for Pipe Optimization, Angus R. Simpson, Graeme C. Dandy and Laurence J. Murphy, WR July/Aug. 94, p423-443.

Goal Programming Model for Distributing and Blending Desalinized Water, Abdulaziz S. Alidi and Taqi N. Al-Faraj, WR May/June 94, p267-275.

Goal Programming Models for Determining Freshwater Inflows to Estuaries, Ning Mao and Larry W. Mays, WR May/June 94, p316-329.

Incorporating Economic Analysis in Irrigation Design and Management, Ujjayant Chakravorty and James Roumasset, WR Nov./Dec. 94, p819-835.

Mulitvariate Geostatistical Design of Ground-Water Monitoring Networks, Fethi Ben-Jemaa, Miguel A. Mariño and Hugo A. Loaiciga, WR July/Aug. 94, p505-522.

New Methodology for Optimization of Freshwater Inflows to Estuaries, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p199-217.

Optimal Capacity-Expansion Planning in Multiaquifer Systems, Hakan Başağaoğlu and Hasan Yazıcıgil, WR Nov./Dec. 94, p836-856.

Optimal Control of Water-Supply Pumping Systems, Lindell E. Ormsbee and Kevin E. Lansey, WR Mar./Apr. 94, p237-252.

Optimal Operation of Multiple-Reservoir System, Philip D. Crawley and Graeme C. Dandy, WR Jan./Feb. 93, p1-17.

Optimal Pump Operations Considering Pump Switches, Kevin E. Lansey and Kofi Awumah, WR Jan./Feb. 94, p17-35.

Optimal Rehabilitation Model for Water-Distribution Systems, Joong Hoon Kim and Larry W. Mays, WR Sept./Oct. 94, p674-692.

Optimization of Freshwater Inflows to Lavaca-Tres Palacios, Texas, Estuary, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p218-236.

Redundancy-Constrained Minimum-Cost Design of Water-Distribution Nets, Heekyung Park and Jon C. Liebman, WR Jan./Feb. 93, p83-98.

Optimization models

Optimal Operation of Ground-Water Supply Distribution Systems, S. Pezeshk, O. J. Helweg and K. E. Oliver, WR Sept./Oct. 94, p573-586.

Optimizing River Diversion under Hydraulic and Hydrologic Uncertainties, Abbas Afshar, Ahmad Barkhordary and Miguel A. Mariño, WR Jan./Feb. 94, p36-47.

Optimum Operation of Recharge Basins, Hasan Mushtaq, Larry W. Mays and Kevin E. Lansey, WR Nov./Dec. 94, p927-943.

Paleohydrology

Mulitlevel Model for Gage and Paleoflood Data, Ellen W. Stevens, WR July/Aug. 94, p444-457.

Parameters

Parameter Estimation in Water-Distribution Systems by Least Squares, R. S. N. Datta and K. Sridharan, WR July/Aug. 94, p405-422.

Unsaturated Flow Modeling—Exact Solution to Approximate Problem? Lakshmi N. Reddi and Sampath K. R. Danda, WR Mar./Apr. 94, p186-198.

Peak flow

Estimation of Peak Flow and Runoff Volume with Response Surface Method, Shie-Yui Liong and Yaacob Ibrahim, WR Mar./Apr. 94, p161-175.

Philippine Islands

Station-Year Approach: Tool for Estimation of Design Floods, Henri Garros-Berthet, WR Mar./Apr. 94, p135-160.

Pipe flow

Predicting Pipe Failure Effects in Water Distribution Networks, P. W. Jowitt and Chengchao Xu, WR Jan./Feb. 93, p18-31.

Pipe networks

Genetic Algorithms Compared to Other Techniques for Pipe Optimization, Angus R. Simpson, Graeme C. Dandy and Laurence J. Murphy, WR July/Aug. 94, p423-443.

Pipelines

Measuring and Modeling Chlorine Propagation in Water Distribution Systems, Robert M. Clark, Walter M. Grayman, James A. Goodrich, Rolf A. Deininger and Kenneth Skov, WR Nov./Dec. 94, p871-887.

Parameter Estimation in Water-Distribution Systems by Least Squares, R. S. N. Datta and K. Sridharan, WR July/Aug. 94, p405-422.

Pipes

Optimal Rehabilitation Model for Water-Distribution Systems, Joong Hoon Kim and Larry W. Mays, WR Sept./Oct. 94, p674-692.

Planning

Bromine Distribution Factors in THM Formation, Paul H. Hutton and Francis I. Chung, WR Jan./Feb. 94, p1-16.

Political factors

Changing Conditions and Water Elections, Charles H. Lawrance, James M. Stubchaer and Jon A. Ahlroth, WR July/Aug. 94, p458-475.

Pollution

Applications of Optimal Hydraulic Control to Ground-Water Systems, David P. Ahlfeld and Manoutchehr Heidari, WR May/June 94, p350-365.

Population growth

Assessing Nassau County's Water Conservation Program, Mark Maimone and Michael Labiak, WR Jan./Feb. 94, p90-100.

Private sector

Policy on Private Water Sales in Rural Ghana, Fred O. Boadu, WR Nov./Dec. 94, p944-961.

Probabilistic methods

Estimation of Peak Flow and Runoff Volume with Response Surface Method, Shie-Yui Liong and Yaacob Ibrahim, WR Mar./Apr. 94, p161-175.

Probability

Reliability of Flood Warning Systems, Roman Krzysztofowicz, Karen S. Kelly and Dou Long, WR Nov./Dec. 94, p906-926.

Probability distribution

Evaluating Risk of Extreme Events for Univariate-Loss Functions, James H. Lambert and Duan Li, WR May/June 94, p382-399.

Project selection

Governmental Priorities in Irrigation Project Selection in Indonesia, Sutardi and I. C. Goulter, WR May/June 93, p406-411.

Public participation

Cooperative Ground-Water Resources Management: Local Perspective, Amleto A. Pucci, Jr., WR Nov./Dec. 94, p984-991.

Public works

Market Models, Protest Bids, and Outliers in Contingent Valuation, Greg Lindsey, WR Jan./Feb. 94, p121-129.

Pumping

Optimal Control of Water-Supply Pumping Systems, Lindell E. Ormsbee and Kevin E. Lansey, WR Mar./Apr. 94, p237-252.

Optimal Operation of Ground-Water Supply Distribution Systems, S. Pezeshk, O. J. Helweg and K. E. Oliver, WR Sept./Oct. 94, p573-586.

Optimal Operation of Multiple-Reservoir System, Philip D. Crawley and Graeme C. Dandy, WR Jan./Feb. 93, p1-17.

Ranking Ground-water Management Alternatives by Multicriterion Analysis, Lucien Duckstein, Wiktor Treichel and Samir El Magnouni, WR July/Aug. 94, p546-565.

Pumps

Optimal Pump Operations Considering Pump Switches, Kevin E. Lansey and Kofi Awumah, WR Jan./Feb. 94, p17-35.

Rainfall

Station-Year Approach: Tool for Estimation of Design Floods, Henri Garros-Berthet, WR Mar./Apr. 94, p135-160.

Rainfall frequency

Jury Verdict: Frequency versus Risk-Based Culvert Design, Gary L. Lewis, WR Mar./Apr. 92, p166-184.

Rainfall intensity

Efficacy of ARC/INFO GIS Application to Hydrologic Modeling, J. J. Warwick and S. J. Haness, WR May/June 94, p366-381.

Rainfall-runoff relationships

Computational Discretization Effect on Rainfall-Runoff Simulation, Edward Mazion, Jr. and Ben Chie Yen, WR Sept./Oct. 94, p715-734.

Efficacy of ARC/INFO GIS Application to Hydrologic Modeling, J. J. Warwick and S. J. Haness, WR May/June 94, p366-381.

Streamflow Forecasting for Han River Basin, Korea, Haitham M. Awwad, Juan B. Valdés and Pedro J. Restrepo, WR Sept./Oct. 94, p651-673.

Real-time programming

Streamflow Forecasting for Han River Basin, Korea, Haitham M. Awwad, Juan B. Valdés and Pedro J. Restrepo, WR Sept./Oct. 94, p651-673.

Recharge basins

Optimum Operation of Recharge Basins, Hasan Mushtaq, Larry W. Mays and Kevin E. Lansey, WR Nov./Dec. 94, p927-943.

Redundancy

Redundancy-Constrained Minimum-Cost Design of Water-Distribution Nets, Heekyung Park and Jon C. Liebman, WR Jan./Feb. 93, p83-98.

Regional analysis

Susceptibility of Reservoirs to Drought Using Palmer Index, William K. Johnson and Roger W. Kohne, WR May/June 93, p367-387.

Regional development

Governmental Priorities in Irrigation Project Selection in Indonesia, Sutardi and I. C. Goulter, WR May/June 93, p406-411.

Regulations

Bromine Distribution Factors in THM Formation, Paul H. Hutton and Francis I. Chung, WR Jan./Feb. 94, p1-16.

Rehabilitation

Optimal Rehabilitation Model for Water-Distribution Systems, Joong Hoon Kim and Larry W. Mays, WR Sept./Oct. 94, p674-692.

Reliability

Predicting Pipe Failure Effects in Water Distribution Networks, P. W. Jowitt and Chengchao Xu, WR Jan./Feb. 93, p18-31.

Reliability analysis

Performance of Integrated Municipal Water System During Drought, Radwan A. Al-Mubarak Al-Weshah and Douglas T. Shaw, WR July/Aug. 94, p531-545.

Reliability of Flood Warning Systems, Roman Krzysztofowicz, Karen S. Kelly and Dou Long, WR Nov./Dec. 94, p906-926.

Reservoir management

Management of Recharge Dams in Saudi Arabia, Fouad F. Al-Muttair, Uygur Sendil and Abdulaziz S. Al-Turbak, WR Nov./Dec. 94, p749-763.

Time-Series Modeling for Long-Range Stream-Flow Forecasting, Michael Bender and Slobodan Simonovic, WR Nov./Dec. 94, p857-870.

Reservoir operation

Conjunctive Operation of Hydroelectric and Thermal Power Plants, Ricardo Harboe, Tirtha Raj Gautam and Pushpa Raj Onta, WR Nov./Dec. 94, p778-793.

Demand-Driven Operation of Reservoirs Using Uncertainty-Based Optimal Operating Policies, Haralambos V. Vasiliadis and Mohammad Karamouz, WR Jan./Feb. 94, p101-114.

Optimal Operation of Multiple-Reservoir System, Philip D. Crawley and Graeme C. Dandy, WR Jan./Feb. 93, p1-17.

Susceptibility of Reservoirs to Drought Using Palmer Index, William K. Johnson and Roger W. Kohne, WR May/June 93, p367-387.

Water-Supply Operations during Drought: Continuous Hedging Rule, Jhih-Shyang Shih and Charles ReVelle, WR Sept./Oct. 94, p613-629.

Reservoir systems

Optimal Operation of Multiple-Reservoir System, Philip D. Crawley and Graeme C. Dandy, WR Jan./Feb. 93, p1-17.

Reservoirs

Demand-Driven Operation of Reservoirs Using Uncertainty-Based Optimal Operating Policies, Haralambos V. Vasiliadis and Mohammad Karamouz, WR Jan./Feb. 94, p101-114.

Evaporation and Evapotranspiration under Climate Change in New England, Neil M. Fennessey and Paul H. Kirshen, WR Jan./Feb. 94, p48-69.

Susceptibility of Reservoirs to Drought Using Palmer Index, William K. Johnson and Roger W. Kohne, WR May/June 93, p367-387.

Restoration

Kissimmee River Restoration Study, Hsieh Wen Shen, Guillermo Tabios, III and James A. Harder, WR May/June 94, p330-349.

Riparian rights

Reallocation Impacts of Eastern Water-Law Changes, William E. Cox, WR July/Aug. 94, p476-484.

Risk analysis

Evaluating Risk of Extreme Events for Univariate-Loss Functions, James H. Lambert and Duan Li, WR May/June 94, p382-399.

Jury Verdict: Frequency versus Risk-Based Culvert Design, Gary L. Lewis, WR Mar./Apr. 92, p166-184.

Risk Management in Wellhead Protection, David A. Chin and Prasad V. K. Chittaluru, WR May/June 94, p294-315.

Runoff

Computational Discretization Effect on Rainfall-Runoff Simulation, Edward Mazion, Jr. and Ben Chie Yen, WR Sept./Oct. 94, p715-734.

Estimation of Peak Flow and Runoff Volume with Response Surface Method, Shie-Yui Liong and Yaacob Ibrahim, WR Mar./Apr. 94, p161-175.

Rural areas

Policy on Private Water Sales in Rural Ghana, Fred O. Boadu, WR Nov./Dec. 94, p944-961.

Salinity

Goal Programming Models for Determining Freshwater Inflows to Estuaries, Ning Mao and Larry W. Mays, WR May/June 94, p316-329.

New Methodology for Optimization of Freshwater Inflows to Estuaries, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p199-217.

Optimization of Freshwater Inflows to Lavaca-Tres Palacios, Texas, Estuary, Yixing Bao and Larry W. Mays, WR Mar./Apr. 94, p218-236.

Saudi Arabia

Management of Recharge Dams in Saudi Arabia, Fouad F. Al-Muttair, Uygur Sendil and Abdulaziz S. Al-Turbak, WR Nov./Dec. 94, p749-763.

Scheduling

Optimal Pump Operations Considering Pump Switches, Kevin E. Lansey and Kofi Awumah, WR Jan./Feb. 94, p17-35.

Sediment transport

Predicting Sediment Yield in Storm-Water Runoff from Urban Areas, Thomas W. Haster and Wesley P. James, WR Sept./Oct. 94, p630-650.

Sensitivity analysis

Parameter Estimation in Water-Distribution Systems by Least Squares, R. S. N. Datta and K. Sridharan, WR July/Aug. 94, p405-422.

Shallow water

Diffusion Hydrodynamic Model of Shallow Estuary, G. L. Guymon, M. N. Khan, M. Collins and T. V. Hromadka, WR Mar./Apr. 94, p253-266.

Silts

Management of Recharge Dams in Saudi Arabia, Fouad F. Al-Muttair, Uygur Sendil and Abdulaziz S. Al-Turbak, WR Nov./Dec. 94, p749-763.

Simulation models

Conjunctive Operation of Hydroelectric and Thermal Power Plants, Ricardo Harboe, Tirtha Raj Gautam and Pushpa Raj Onta, WR Nov./Dec. 94, p778-793.

Social aspects

Changing Conditions and Water Elections, Charles H. Lawrance, James M. Stubchaer and Jon A. Ahlroth, WR July/Aug. 94, p458-475.

Social needs

Governmental Priorities in Irrigation Project Selection in Indonesia, Sutardi and I. C. Goulter, WR May/June 93, p406-411.

Soil erosion

Predicting Sediment Yield in Storm-Water Runoff from Urban Areas, Thomas W. Haster and Wesley P. James, WR Sept./Oct. 94, p630-650.

Soil water movement

Optimum Operation of Recharge Basins, Hasan Mushtaq, Larry W. Mays and Kevin E. Lansey, WR Nov./Dec. 94, p927-943.

Spatial data

Computational Discretization Effect on Rainfall-Runoff Simulation, Edward Mazion, Jr. and Ben Chie Yen, WR Sept./Oct. 94, p715-734.

Statistical analysis

Assessing Nassau County's Water Conservation Program, Mark Maimone and Michael Labiak, WR Jan./Feb. 94, p90-100.

Bromine Distribution Factors in THM Formation, Paul H. Hutton and Francis I. Chung, WR Jan./Feb. 94, p1-16.

Effectiveness of Water-Conservation Measures in Greater Athens Area, Helen Briassoulis, WR Nov./Dec. 94, p764-777.

Flow-Duration Curves I: New Interpretation and Confidence Intervals, Richard M. Vogel and Neil M. Fennessey, WR July/Aug. 94, p485-504.

Mulitlevel Model for Gage and Paleoflood Data, Ellen W. Stevens, WR July/Aug. 94, p444-457.

Mulitvariate Geostatistical Design of Ground-Water Monitoring Networks, Fethi Ben-Jemaa, Miguel A. Mariño and Hugo A. Loaiciga, WR July/Aug. 94, p505-522.

Station-Year Approach: Tool for Estimation of Design Floods, Henri Garros-Berthet, WR Mar./Apr. 94, p135-160.

Stochastic models

Streamflow Forecasting for Han River Basin, Korea, Haitham M. Awwad, Juan B. Valdés and Pedro J. Restrepo, WR Sept./Oct. 94, p651-673.

Stochastic processes

Demand-Driven Operation of Reservoirs Using Uncertainty-Based Optimal Operating Policies, Haralambos V. Vasiliadis and Mohammad Karamouz, WR Jan./Feb. 94, p101-114.

Genetic Algorithms Compared to Other Techniques for Pipe Optimization, Angus R. Simpson, Graeme C. Dandy and Laurence J. Murphy, WR July/Aug. 94, p423-443.

Partial Infeasibility Method for Chance-Constrained Aquifer Management, Nathan Chan, WR Jan./Feb. 94, p70-89.

Stormwater

Predicting Sediment Yield in Storm-Water Runoff from Urban Areas, Thomas W. Haster and Wesley P. James, WR Sept./Oct. 94, p630-650.

Stormwater management

Modeling of Infiltration from Trenches for Storm-Water Control, Michael Duchene, Edward A. McBean and Neil R. Thomson, WR May/June 94, p276-293.

Role of Urban Storm-Flow Volume in Local Drainage Problems, Bruce K. Ferguson and Tamas Deak, WR July/Aug. 94, p523-530.

Streamflow

Flow-Duration Curves I: New Interpretation and Confidence Intervals, Richard M. Vogel and Neil M. Fennessey, WR July/Aug. 94, p485-504.

Streamflow forecasting

Streamflow Forecasting for Han River Basin, Korea, Haitham M. Awwad, Juan B. Valdés and Pedro J. Restrepo, WR Sept./Oct. 94, p651-673.

Time-Series Modeling for Long-Range Stream-Flow Forecasting, Michael Bender and Slobodan Simonovic, WR Nov./Dec. 94, p857-870.

Surveys, data collection

Market Models, Protest Bids, and Outliers in Contingent Valuation, Greg Lindsey, WR Jan./Feb. 94, p121-129.

Water-Quality Data Management: Survey of Current Trends, Laurel Saito, Neil S. Grigg and Robert C. Ward, WR Sept./Oct. 94, p587-612.

System reliability

Redundancy-Constrained Minimum-Cost Design of Water-Distribution Nets, Heekyung Park and Jon C. Liebman, WR Jan./Feb. 93, p83-98.

Texas

Freshwater-Inflow Need of Estuary Computed by Texas Estuarine MP Model, Junji Matsumoto, Gary Powell and David Brock, WR Sept./Oct. 94, p693-714.

Thermal power plants

Conjunctive Operation of Hydroelectric and Thermal Power Plants, Ricardo Harboe, Tirtha Raj Gautam and Pushpa Raj Onta, WR Nov./Dec. 94, p778-793.

Tidal effects

Diffusion Hydrodynamic Model of Shallow Estuary, G. L. Guymon, M. N. Khan, M. Collins and T. V. Hromadka, WR Mar./Apr. 94, p253-266.

Time series analysis

Time-Series Modeling for Long-Range Stream-Flow Forecasting, Michael Bender and Slobodan Simonovic, WR Nov./Dec. 94, p857-870.

Trenches

Modeling of Infiltration from Trenches for Storm-Water Control, Michael Duchene, Edward A. McBean and Neil R. Thomson, WR May/June 94, p276-293.

Trihalomethanes

Bromine Distribution Factors in THM Formation, Paul H. Hutton and Francis I. Chung, WR Jan./Feb. 94, p1-16.

Uncertainty principles

Optimizing River Diversion under Hydraulic and Hydrologic Uncertainties, Abbas Afshar, Ahmad Barkhordary and Miguel A. Mariño, WR Jan./Feb. 94, p36-47.

Unsaturated flow

Unsaturated Flow Modeling—Exact Solution to Approximate Problem? Lakshmi N. Reddi and Sampath K. R. Danda, WR Mar./Apr. 94, p186-198.

Urban areas

Predicting Sediment Yield in Storm-Water Runoff from Urban Areas, Thomas W. Haster and Wesley P. James, WR Sept./Oct. 94, p630-650.

Role of Urban Storm-Flow Volume in Local Drainage Problems, Bruce K. Ferguson and Tamas Deak, WR July/Aug. 94, p523-530.

Variability

Demand-Driven Operation of Reservoirs Using Uncertainty-Based Optimal Operating Policies, Haralambos V. Vasiliadis and Mohammad Karamouz, WR Jan./Feb. 94, p101-114.

Mulitvariate Geostatistical Design of Ground-Water Monitoring Networks, Fethi Ben-Jemaa, Miguel A. Mariño and Hugo A. Loaiciga, WR July/Aug. 94, p505-522.

Waste management

Optimal Control of Ground-Water Quality Management: Nonlinear Programming Approach, S. Alireza Taghavi, Richard E. Howitt and Miguel A. Mariño, WR Nov./Dec. 94, p962-982.

Water allocation policy

Reallocation Impacts of Eastern Water-Law Changes, William E. Cox, WR July/Aug. 94, p476-484.

Water conservation

Assessing Nassau County's Water Conservation Program, Mark Maimone and Michael Labiak, WR Jan./Feb. 94, p90-100.

Effectiveness of Water-Conservation Measures in Greater Athens Area, Helen Briassoulis, WR Nov./Dec. 94, p764-777.

Water consumption

Adaptive Forecasting of Hourly Municipal Water Consumption, Chatree Homwongs, Tep Sastri and Joseph W. Foster, III, WR Nov./Dec. 94, p888-905.

Assessing Nassau County's Water Conservation Program, Mark Maimone and Michael Labiak, WR Jan./Feb. 94, p90-100.

Effectiveness of Water-Conservation Measures in Greater Athens Area, Helen Briassoulis, WR Nov./Dec. 94, p764-777.

Water demand

Changing Conditions and Water Elections, Charles H. Lawrance, James M. Stubchaer and Jon A. Ahlroth, WR July/Aug. 94, p458-475.

Demand-Driven Operation of Reservoirs Using Uncertainty-Based Optimal Operating Policies, Haralambos V. Vasiliadis and Mohammad Karamouz, WR Jan./Feb. 94, p101-114.

Optimal Capacity-Expansion Planning in Multiaquifer Systems, Hakan Basagaoglu and Hasan Yazıcıgil, WR Nov./Dec. 94, p836-856.

Performance of Integrated Municipal Water System During Drought, Radwan A. Al-Mubarak Al-Weshah and Douglas T. Shaw, WR July/Aug. 94, p531-545.

Reallocation Impacts of Eastern Water-Law Changes, William E. Cox, WR July/Aug. 94, p476-484.

Water-Supply Operations during Drought: Continuous Hedging Rule, Jhih-Shyang Shih and Charles ReVelle, WR Sept./Oct. 94, p613-629.

Water distribution

Data Management for Large-Scale Water-Distribution Optimization Systems, S. Pezeshk, WR Jan./Feb. 94, p116-120.

Goal Programming Model for Distributing and Blending Desalinized Water, Abdulaziz S. Alidi and Taqi N. Al-Faraj, WR May/June 94, p267-275.

Incorporating Economic Analysis in Irrigation Design and Management, Ujjayant Chakravorty and James Roumasset, WR Nov./Dec. 94, p819-835.

Measuring and Modeling Chlorine Propagation in Water Distribution Systems, Robert M. Clark, Walter M. Grayman, James A. Goodrich, Rolf A. Deininger and Kenneth Skov, WR Nov./Dec. 94, p871-887.

Optimal Operation of Ground-Water Supply Distribution Systems, S. Pezeshk, O. J. Helweg and K. E. Oliver, WR Sept./Oct. 94, p573-586.

Optimal Pump Operations Considering Pump Switches, Kevin E. Lansey and Kofi Awumah, WR Jan./Feb. 94, p17-35.

Optimal Rehabilitation Model for Water-Distribution Systems, Joong Hoon Kim and Larry W. Mays, WR Sept./Oct. 94, p674-692.

Parameter Estimation in Water-Distribution Systems by Least Squares, R. S. N. Datta and K. Sridharan, WR July/Aug. 94, p405-422.

Performance of Integrated Municipal Water System During Drought, Radwan A. Al-Mubarak Al-Weshah and Douglas T. Shaw, WR July/Aug. 94, p531-545.

Policy on Private Water Sales in Rural Ghana, Fred O. Boadu, WR Nov./Dec. 94, p944-961.

Predicting Pipe Failure Effects in Water Distribution Networks, P. W. Jowitt and Chengchao Xu, WR Jan./Feb. 93, p18-31.

Redundancy-Constrained Minimum-Cost Design of Water-Distribution Nets, Heekyung Park and Jon C. Liebman, WR Jan./Feb. 93, p83-98.

Water-Supply Operations during Drought: Continuous Hedging Rule, Jhih-Shyang Shih and Charles ReVelle, WR Sept./Oct. 94, p613-629.

Water law

Reallocation Impacts of Eastern Water-Law Changes, William E. Cox, WR July/Aug. 94, p476-484.

Water pollution

Nonpoint-Pollution Model Sensitivity to Grid-Cell Size, Baxter E. Vieux and Scott Needham, WR Mar./Apr. 93, p141-157.

Water quality

Bromine Distribution Factors in THM Formation, Paul H. Hutton and Francis I. Chung, WR Jan./Feb. 94, p1-16.

Measuring and Modeling Chlorine Propagation in Water Distribution Systems, Robert M. Clark, Walter M. Grayman, James A. Goodrich, Rolf A. Deininger and Kenneth Skov, WR Nov./Dec. 94, p871-887.

Partial Infeasibility Method for Chance-Constrained Aquifer Management, Nathan Chan, WR Jan./Feb. 94, p70-89.

Predicting Sediment Yield in Storm-Water Runoff from Urban Areas, Thomas W. Haster and Wesley P. James, WR Sept./Oct. 94, p630-650.

Water-Quality Data Management: Survey of Current Trends, Laurel Saito, Neil S. Grigg and Robert C. Ward, WR Sept./Oct. 94, p587-612.

Water resources

Changing Conditions and Water Elections, Charles H. Lawrance, James M. Stubchaer and Jon A. Ahlroth, WR July/Aug. 94, p458-475.

Evaluating Risk of Extreme Events for Univariate-Loss Functions, James H. Lambert and Duan Li, WR May/June 94, p382-399.

Optimum Operation of Recharge Basins, Hasan Mushtaq, Larry W. Mays and Kevin E. Lansey, WR Nov./Dec. 94, p927-943.

Partial Infeasibility Method for Chance-Constrained Aquifer Management, Nathan Chan, WR Jan./Feb. 94, p70-89.

Susceptibility of Reservoirs to Drought Using Palmer Index, William K. Johnson and Roger W. Kohne, WR May/June 93, p367-387.

Water resources management

Bromine Distribution Factors in THM Formation, Paul H. Hutton and Francis I. Chung, WR Jan./Feb. 94, p1-16.

Cooperative Ground-Water Resources Management: Local Perspective, Amleto A. Pucci, Jr., WR Nov./Dec. 94, p984-991.

Drought and Water-Supply Management: Roles and Responsibilities. Neil S. Grigg and Evan C. Vlachos, WR Sept./Oct. 93, p531-541.

Kissimmee River Restoration Study, Hsieh Wen Shen, Guillermo Tabios, III and James A. Harder, WR May/June 94, p330-349.

Reallocation Impacts of Eastern Water-Law Changes, William E. Cox, WR July/Aug. 94, p476-484.

Water rights

Reallocation Impacts of Eastern Water-Law Changes, William E. Cox, WR July/Aug. 94, p476-484.

Water shortage

Ranking Ground-water Management Alternatives by Multicriterion Analysis, Lucien Duckstein, Wiktor Treichel and Samir El Magnouni, WR July/Aug. 94, p546-565.

Water supply

Drought and Water-Supply Management: Roles and Responsibilities. Neil S. Grigg and Evan C. Vlachos, WR Sept./Oct. 93, p531-541.

Optimal Operation of Multiple-Reservoir System, Philip D. Crawley and Graeme C. Dandy, WR Jan./Feb. 93, p1-17.

Policy on Private Water Sales in Rural Ghana, Fred O. Boadu, WR Nov./Dec. 94, p944-961.

Risk Management in Wellhead Protection, David A. Chin and Prasad V. K. Chittaluru, WR May/June 94, p294-315.

Water-Supply Operations during Drought: Continuous Hedging Rule, Jhih-Shyang Shih and Charles ReVelle, WR Sept./Oct. 94, p613-629.

Water supply forecasting

Demand-Driven Operation of Reservoirs Using Uncertainty-Based Optimal Operating Policies, Haralambos V. Vasiliadis and Mohammad Karamouz, WR Jan./Feb. 94, p101-114.

Time-Series Modeling for Long-Range Stream-Flow Forecasting, Michael Bender and Slobodan Simonovic, WR Nov./Dec. 94, p857-870.

Water supply systems

Measuring and Modeling Chlorine Propagation in Water Distribution Systems, Robert M. Clark, Walter M. Grayman, James A. Goodrich, Rolf A. Deininger and Kenneth Skov, WR Nov./Dec. 94, p871-887.

Optimal Control of Water-Supply Pumping Systems, Lindell E. Ormsbee and Kevin E. Lansey, WR Mar./Apr. 94, p237-252.

Optimal Pump Operations Considering Pump Switches, Kevin E. Lansey and Kofi Awumah, WR Jan./Feb. 94, p17-35.

Parameter Estimation in Water-Distribution Systems by Least Squares, R. S. N. Datta and K. Sridharan, WR July/Aug. 94, p405-422.

Performance of Integrated Municipal Water System During Drought, Radwan A. Al-Mubarak Al-Weshah and Douglas T. Shaw, WR July/Aug. 94, p531-545.

Water treatment

Measuring and Modeling Chlorine Propagation in Water Distribution Systems, Robert M. Clark, Walter M. Grayman, James A. Goodrich, Rolf A. Deininger and Kenneth Skov, WR Nov./Dec. 94, p871-887.

Water use

Reallocation Impacts of Eastern Water-Law Changes, William E. Cox, WR July/Aug. 94, p476-484.

Watersheds

Efficacy of ARC/INFO GIS Application to Hydrologic Modeling, J. J. Warwick and S. J. Haness, WR May/June 94, p366-381.

Predicting Sediment Yield in Storm-Water Runoff from Urban Areas, Thomas W. Haster and Wesley P. James, WR Sept./Oct. 94, p630-650.

Role of Urban Storm-Flow Volume in Local Drainage Problems, Bruce K. Ferguson and Tamas Deak, WR July/Aug. 94, p523-530.

Weather

Assessing Nassau County's Water Conservation Program, Mark Maimone and Michael Labiak, WR Jan./Feb. 94, p90-100.

Wells

Risk Management in Wellhead Protection, David A. Chin and Prasad V. K. Chittaluru, WR May/June 94, p294-315.

AUTHOR INDEX

Afshar, Abbas
Optimizing River Diversion under Hydraulic and Hydrologic Uncertainties, with Ahmad Barkhordary and Miguel A. Mariño, WR Jan./Feb. 94, p36-47

Ahlfeld, David P.
Applications of Optimal Hydraulic Control to Ground-Water Systems, with Manoutchehr Heidari, WR May/June 94, p350-365

Ahlroth, Jon A.
see Lawrance, Charles H., WR July/Aug. 94, p458-475

Al-Faraj, Taqi N.
see Alidi, Abdulaziz S., WR May/June 94, p267-275

Alidi, Abdulaziz S.
Goal Programming Model for Distributing and Blending Desalinized Water, with Taqi N. Al-Faraj, WR May/June 94, p267-275

Al-Muttair, Fouad F.
Management of Recharge Dams in Saudi Arabia, with Uygur Sendil and Abdulaziz S. Al-Turbak, WR Nov./Dec. 94, p749-763

Al-Turbak, Abdulaziz S.
see Al-Muttair, Fouad F., WR Nov./Dec. 94, p749-763

Al-Weshah, Radwan A. Al-Mubarak
Performance of Integrated Municipal Water System During Drought, with Douglas T. Shaw, WR July/Aug. 94, p531-545

Awumah, Kofi
see Lansey, Kevin E., WR Jan./Feb. 94, p17-35

Awwad, Haitham M.
Streamflow Forecasting for Han River Basin, Korea, with Juan B. Valdés and Pedro J. Restrepo, WR Sept./Oct. 94, p651-673

Balocki, James B.
Relationships between *n*-Day Flood Volumes for Infrequent Large Floods, with Stephen J. Burges, WR Nov./Dec. 94, p794-818

Bao, Yixing
New Methodology for Optimization of Freshwater Inflows to Estuaries, with Larry W. Mays, WR Mar./Apr. 94, p199-217
Optimization of Freshwater Inflows to Lavaca-Tres Palacios, Texas, Estuary, with Larry W. Mays, WR Mar./Apr. 94, p218-236

Barkhordary, Ahmad
see Afshar, Abbas, WR Jan./Feb. 94, p36-47

Basagaoglu, Hakan
Optimal Capacity-Expansion Planning in Multiaquifer Systems, with Hasan Yazıcıgil, WR Nov./Dec. 94, p836-856

Bender, Michael
Time-Series Modeling for Long-Range Stream-Flow Forecasting, with Slobodan Simonovic, WR Nov./Dec. 94, p857-870

Ben-Jemaa, Fethi
Mulitvariate Geostatistical Design of Ground-Water Monitoring Networks, with Miguel A. Mariño and Hugo A. Loaiciga, WR July/Aug. 94, p505-522

Boadu, Fred O.
Policy on Private Water Sales in Rural Ghana, WR Nov./Dec. 94, p944-961

Briassoulis, Helen
Effectiveness of Water-Conservation Measures in Greater Athens Area, WR Nov./Dec. 94, p764-777

Brock, David
see Matsumoto, Junji, WR Sept./Oct. 94, p693-714

Bruggink, Thomas H.
disc. (of Susceptibility of Reservoirs to Drought Using Palmer Index, by William K. Johnson and Roger W. Kohne, WR May/June 93, p367-387), WR Sept./Oct. 94, p736-738

Burges, Stephen J.
see Balocki, James B., WR Nov./Dec. 94, p794-818

Chakravorty, Ujjayant
Incorporating Economic Analysis in Irrigation Design and Management, with James Roumasset, WR Nov./Dec. 94, p819-835

Chan, Nathan
Partial Infeasibility Method for Chance-Constrained Aquifer Management, WR Jan./Feb. 94, p70-89

Chin, David A.
Risk Management in Wellhead Protection, with Prasad V. K. Chittaluru, WR May/June 94, p294-315

Chittaluru, Prasad V. K.
see Chin, David A., WR May/June 94, p294-315

Chung, Francis I.
see Hutton, Paul H., WR Jan./Feb. 94, p1-16

Clark, Robert M.
Measuring and Modeling Chlorine Propagation in Water Distribution Systems, with Walter M. Grayman, James A. Goodrich, Rolf A. Deininger and Kenneth Skov, WR Nov./Dec. 94, p871-887

Collins, M.
see Guymon, G. L., WR Mar./Apr. 94, p253-266

Cox, William E.
Reallocation Impacts of Eastern Water-Law Changes, WR July/Aug. 94, p476-484

Crawley, Philip D.
Optimal Operation of Multiple-Reservoir System, with Graeme C. Dandy, WR Jan./Feb. 93, p1-17
disc: Ali Diba and Manouchehr Mahjoub, WR Sept./Oct. 94, p742-744
clo: WR Sept./Oct. 94, p744-747

Danda, Sampath K. R.
see Reddi, Lakshmi N., WR Mar./Apr. 94, p186-198

Dandy, Graeme C.
see Crawley, Philip D., WR Jan./Feb. 93, p1-17
see Simpson, Angus R., WR July/Aug. 94, p423-443

Datta, R. S. N.
Parameter Estimation in Water-Distribution Systems by Least Squares, with K. Sridharan, WR July/Aug. 94, p405-422

Deak, Tamas
see Ferguson, Bruce K., WR July/Aug. 94, p523-530

Deininger, Rolf A.
see Clark, Robert M., WR Nov./Dec. 94, p871-887

Diba, Ali
disc. (of Optimal Operation of Multiple-Reservoir System, by Philip D. Crawley and Graeme C. Dandy, WR Jan./Feb. 93, p1-17) with Manouchehr Mahjoub, WR Sept./Oct. 94, p742-744

Duchene, Michael
Modeling of Infiltration from Trenches for Storm-Water Control, with Edward A. McBean and Neil R. Thomson, WR May/June 94, p276-293

Duckstein, Lucien
Ranking Ground-water Management Alternatives by Multicriterion Analysis, with Wiktor Treichel and Samir El Magnouni, WR July/Aug. 94, p546-565

El Magnouni, Samir
see Duckstein, Lucien, WR July/Aug. 94, p546-565

Fennessey, Neil M.
Evaporation and Evapotranspiration under Climate Change in New England, with Paul H. Kirshen, WR Jan./Feb. 94, p48-69
see Vogel, Richard M., WR July/Aug. 94, p485-504

Ferguson, Bruce K.
Role of Urban Storm-Flow Volume in Local Drainage Problems, with Tamas Deak, WR July/Aug. 94, p523-530

Foster, Joseph W., III
see Homwongs, Chatree, WR Nov./Dec. 94, p888-905

Garbrecht, J.
disc. (of Nonpoint-Pollution Model Sensitivity to Grid-Cell Size, by Baxter E. Vieux and Scott Needham, WR Mar./Apr. 93, p141-157), WR Sept./Oct. 94, p738-740

Garros-Berthet, Henri
Station-Year Approach: Tool for Estimation of Design Floods, WR Mar./Apr. 94, p135-160

Gautam, Tirtha Raj
see Harboe, Ricardo, WR Nov./Dec. 94, p778-793

Goodrich, James A.
see Clark, Robert M., WR Nov./Dec. 94, p871-887

Goulter, I. C.
see Sutardi, WR May/June 93, p406-411

Grayman, Walter M.
see Clark, Robert M., WR Nov./Dec. 94, p871-887

Grigg, Neil S.
Drought and Water-Supply Management: Roles and Responsibilities., with Evan C. Vlachos, WR Sept./Oct. 93, p531-541
disc: William Whipple, Jr. and William J. Werick, WR Nov./Dec. 94, p1003-1004
clo: WR Nov./Dec. 94, p1005
see Saito, Laurel, WR Sept./Oct. 94, p587-612

Gutowski, William J.
Effects of Global Warming on Hurricane-Induced Flooding, with George F. McMahon, Shing S. Schluchter and Paul H. Kirshen, WR Mar./Apr. 94, p176-185

Guymon, G. L.
Diffusion Hydrodynamic Model of Shallow Estuary, with M. N. Khan, M. Collins and T. V. Hromadka, WR Mar./Apr. 94, p253-266

Haness, S. J.
see Warwick, J. J., WR May/June 94, p366-381

Harboe, Ricardo
Conjunctive Operation of Hydroelectric and Thermal Power Plants, with Tirtha Raj Gautam and Pushpa Raj Onta, WR Nov./Dec. 94, p778-793

Harder, James A.
see Shen, Hsieh Wen, WR May/June 94, p330-349

Haster, Thomas W.
Predicting Sediment Yield in Storm-Water Runoff from Urban Areas, with Wesley P. James, WR Sept./Oct. 94, p630-650

Heidari, Manoutchehr
see Ahlfeld, David P., WR May/June 94, p350-365

Helweg, O. J.
see Pezeshk, S., WR Sept./Oct. 94, p573-586

Homwongs, Chatree
Adaptive Forecasting of Hourly Municipal Water Consumption, with Tep Sastri and Joseph W. Foster, III, WR Nov./Dec. 94, p888-905

Howitt, Richard E.
see Taghavi, S. Alireza, WR Nov./Dec. 94, p962-982

Hromadka, T. V.
see Guymon, G. L., WR Mar./Apr. 94, p253-266

Hutton, Paul H.
Bromine Distribution Factors in THM Formation, with Francis I. Chung, WR Jan./Feb. 94, p1-16

Ibrahim, Yaacob
see Liong, Shie-Yui, WR Mar./Apr. 94, p161-175

James, Wesley P.
see Haster, Thomas W., WR Sept./Oct. 94, p630-650

Johnson, William K.
Susceptibility of Reservoirs to Drought Using Palmer Index, with Roger W. Kohne, WR May/June 93, p367-387
disc: Thomas H. Bruggink, WR Sept./Oct. 94, p736-738
clo: WR Sept./Oct. 94, p738

Jones, Jonathan E.
disc. (of Jury Verdict: Frequency versus Risk-Based Culvert Design, by Gary L. Lewis, WR Mar./Apr. 92, p166-184), WR Nov./Dec. 94, p994

Jowitt, P. W.
Predicting Pipe Failure Effects in Water Distribution Networks, with Chengchao Xu, WR Jan./Feb. 93, p18-31
disc: Thomas M. Walski, WR May/June 94, p402-403
clo: WR May/June 94, p404

Karamouz, Mohammad
see Vasiliadis, Haralambos V., WR Jan./Feb. 94, p101-114

Kelly, Karen S.
see Krzysztofowicz, Roman, WR Nov./Dec. 94, p906-926

Khan, M. N.
see Guymon, G. L., WR Mar./Apr. 94, p253-266

Kim, Joong Hoon
Optimal Rehabilitation Model for Water-Distribution Systems, with Larry W. Mays, WR Sept./Oct. 94, p674-692

Kirshen, Paul H.
see Fennessey, Neil M., WR Jan./Feb. 94, p48-69
see Gutowski, William J., WR Mar./Apr. 94, p176-185

Kohne, Roger W.
see Johnson, William K., WR May/June 93, p367-387

Krzysztofowicz, Roman
Reliability of Flood Warning Systems, with Karen S. Kelly and Dou Long, WR Nov./Dec. 94, p906-926

Labiak, Michael
see Maimone, Mark, WR Jan./Feb. 94, p90-100

Lambert, James H.
Evaluating Risk of Extreme Events for Univariate-Loss Functions, with Duan Li, WR May/June 94, p382-399

Lansey, Kevin E.
Optimal Pump Operations Considering Pump Switches, with Kofi Awumah, WR Jan./Feb. 94, p17-35
see Mushtaq, Hasan, WR Nov./Dec. 94, p927-943
see Ormsbee, Lindell E., WR Mar./Apr. 94, p237-252

Lawrance, Charles H.
Changing Conditions and Water Elections, with James M. Stubchaer and Jon A. Ahlroth, WR July/Aug. 94, p458-475

Lewis, Gary L.
Jury Verdict: Frequency versus Risk-Based Culvert Design, WR Mar./Apr. 92, p166-184
disc: Jonathan E. Jones, WR Nov./Dec. 94, p994
disc: Anand Prakash, WR Nov./Dec. 94, p994-996
clo: WR Nov./Dec. 94, p997-999

Li, Duan
see Lambert, James H., WR May/June 94, p382-399

Liebman, Jon C.
see Park, Heekyung, WR Jan./Feb. 93, p83-98

Lindsey, Greg
Market Models, Protest Bids, and Outliers in Contingent Valuation, WR Jan./Feb. 94, p121-129

Liong, Shie-Yui
Estimation of Peak Flow and Runoff Volume with Response Surface Method, with Yaacob Ibrahim, WR Mar./Apr. 94, p161-175

Loaiciga, Hugo A.
see Ben-Jemaa, Fethi, WR July/Aug. 94, p505-522

Long, Dou
see Krzysztofowicz, Roman, WR Nov./Dec. 94, p906-926

Mahjoub, Manouchehr
see Diba, Ali, (disc), WR Jan./Feb. 93, p1-17

Maimone, Mark
Assessing Nassau County's Water Conservation Program, with Michael Labiak, WR Jan./Feb. 94, p90-100

Mao, Ning
Goal Programming Models for Determining Freshwater Inflows to Estuaries, with Larry W. Mays, WR May/June 94, p316-329

Mariño, Miguel A.
see Afshar, Abbas, WR Jan./Feb. 94, p36-47
see Ben-Jemaa, Fethi, WR July/Aug. 94, p505-522
see Taghavi, S. Alireza, WR Nov./Dec. 94, p962-982

Matsumoto, Junji
Freshwater-Inflow Need of Estuary Computed by Texas Estuarine MP Model, with Gary Powell and David Brock, WR Sept./Oct. 94, p693-714

Mays, Larry W.
see Bao, Yixing, WR Mar./Apr. 94, p199-217
see Bao, Yixing, WR Mar./Apr. 94, p218-236
see Kim, Joong Hoon, WR Sept./Oct. 94, p674-692
see Mao, Ning, WR May/June 94, p316-329
see Mushtaq, Hasan, WR Nov./Dec. 94, p927-943

Mazion, Edward, Jr.
Computational Discretization Effect on Rainfall-Runoff Simulation, with Ben Chie Yen, WR Sept./Oct. 94, p715-734

McBean, Edward A.
see Duchene, Michael, WR May/June 94, p276-293

McMahon, George F.
see Gutowski, William J., WR Mar./Apr. 94, p176-185

Moonasingha, Ananda D.
disc. (of Governmental Priorities in Irrigation Project Selection in Indonesia, by Sutardi and I. C. Goulter, WR May/June 93, p406-411), WR Nov./Dec. 94, p1000-1001

Murphy, Laurence J.
see Simpson, Angus R., WR July/Aug. 94, p423-443

Mushtaq, Hasan
Optimum Operation of Recharge Basins, with Larry W. Mays and Kevin E. Lansey, WR Nov./Dec. 94, p927-943

Needham, Scott
see Vieux, Baxter E., WR Mar./Apr. 93, p141-157

Oliver, K. E.
see Pezeshk, S., WR Sept./Oct. 94, p573-586

Onta, Pushpa Raj
see Harboe, Ricardo, WR Nov./Dec. 94, p778-793

Ormsbee, Lindell E.
Optimal Control of Water-Supply Pumping Systems, with Kevin E. Lansey, WR Mar./Apr. 94, p237-252

Park, Heekyung
Redundancy-Constrained Minimum-Cost Design of Water-Distribution Nets, with Jon C. Liebman, WR Jan./Feb. 93, p83-98
disc: Tiku T. Tanyimboh and Andrew B. Templeman, WR July/Aug. 94, p568-570
clo: WR July/Aug. 94, p570-571

Pezeshk, S.
Data Management for Large-Scale Water-Distribution Optimization Systems, WR Jan./Feb. 94, p116-120
Optimal Operation of Ground-Water Supply Distribution Systems, with O. J. Helweg and K. E. Oliver, WR Sept./Oct. 94, p573-586

Powell, Gary
see Matsumoto, Junji, WR Sept./Oct. 94, p693-714

Prakash, Anand
disc. (of Jury Verdict: Frequency versus Risk-Based Culvert Design, by Gary L. Lewis, WR Mar./Apr. 92, p166-184), WR Nov./Dec. 94, p994-996

Pucci, Amleto A., Jr.
Cooperative Ground-Water Resources Management: Local Perspective, WR Nov./Dec. 94, p984-991

Reddi, Lakshmi N.
Unsaturated Flow Modeling—Exact Solution to Approximate Problem?, with Sampath K. R. Danda, WR Mar./Apr. 94, p186-198

Restrepo, Pedro J.
see Awwad, Haitham M., WR Sept./Oct. 94, p651-673

ReVelle, Charles
see Shih, Jhih-Shyang, WR Sept./Oct. 94, p613-629

Roumasset, James
see Chakravorty, Ujjayant, WR Nov./Dec. 94, p819-835

Saito, Laurel
Water-Quality Data Management: Survey of Current Trends, with Neil S. Grigg and Robert C. Ward, WR Sept./Oct. 94, p587-612

Sastri, Tej
see Homwongs, Chatree, WR Nov./Dec. 94, p888-905

Schlachter, Shing S.
see Gutowski, William J., WR Mar./Apr. 94, p176-185

Sendil, Uygur
see Al-Muttair, Fouad F., WR Nov./Dec. 94, p749-763

Shaw, Douglas T.
see Al-Weshah, Radwan A. Al-Mubarak, WR July/Aug. 94, p531-545

Shen, Hsieh Wen
Kissimmee River Restoration Study, with Guillermo Tabios, III and James A. Harder, WR May/June 94, p330-349

Shih, Jhih-Shyang
Water-Supply Operations during Drought: Continuous Hedging Rule, with Charles ReVelle, WR Sept./Oct. 94, p613-629

Simonovic, Slobodan
see Bender, Michael, WR Nov./Dec. 94, p857-870

Simpson, Angus R.
Genetic Algorithms Compared to Other Techniques for Pipe Optimization, with Graeme C. Dandy and Laurence J. Murphy, WR July/Aug. 94, p423-443

Skov, Kenneth
see Clark, Robert M., WR Nov./Dec. 94, p871-887

Sridharan, K.
see Datta, R. S. N., WR July/Aug. 94, p405-422

Stevens, Ellen W.
Mulitlevel Model for Gage and Paleoflood Data, WR July/Aug. 94, p444-457

Stubchaer, James M.
see Lawrance, Charles H., WR July/Aug. 94, p458-475

Sutardi
Governmental Priorities in Irrigation Project Selection in Indonesia, with I. C. Goulter, WR May/June 93, p406-411
disc: Ananda D. Moonasingha, WR Nov./Dec. 94, p1000-1001
clo: WR Nov./Dec. 94, p1001-1002

Tabios, Guillermo, III
see Shen, Hsieh Wen, WR May/June 94, p330-349

Taghavi, S. Alireza
Optimal Control of Ground-Water Quality Management: Nonlinear Programming Approach, with Richard E. Howitt and Miguel A. Mariño, WR Nov./Dec. 94, p962-982

Tanyimboh, Tiku T.
disc. (of Redundancy-Constrained Minimum-Cost Design of Water-Distribution Nets, by Heekyung Park and Jon C. Liebman, WR Jan./Feb. 93, p83-98) with Andrew B. Templeman, WR July/Aug. 94, p568-570

Templeman, Andrew B.
see Tanyimboh, Tiku T., (disc), WR Jan./Feb. 93, p83-98

Thomson, Neil R.
see Duchene, Michael, WR May/June 94, p276-293

Treichel, Wiktor
see Duckstein, Lucien, WR July/Aug. 94, p546-565

Valdés, Juan B.
see Awwad, Haitham M., WR Sept./Oct. 94, p651-673

Vasiliadis, Haralambos V.
Demand-Driven Operation of Reservoirs Using Uncertainty-Based Optimal Operating Policies, with Mohammad Karamouz, WR Jan./Feb. 94, p101-114
err: WR July/Aug. 94, p572

Vieux, Baxter E.
Nonpoint-Pollution Model Sensitivity to Grid-Cell Size, with Scott Needham, WR Mar./Apr. 93, p141-157
disc: J. Garbrecht, WR Sept./Oct. 94, p738-740
clo: WR Sept./Oct. 94, p740-742

Vlachos, Evan C.
see Grigg, Neil S., WR Sept./Oct. 93, p531-541

Vogel, Richard M.
Flow-Duration Curves I: New Interpretation and Confidence Intervals, with Neil M. Fennessey, WR July/Aug. 94, p485-504

Walski, Thomas M.
disc. (of Predicting Pipe Failure Effects in Water Distribution Networks, by P. W. Jowitt and Chengchao Xu, WR Jan./Feb. 93, p18-31), WR May/June 94, p402-403

Ward, Robert C.
see Saito, Laurel, WR Sept./Oct. 94, p587-612

Warwick, J. J.
Efficacy of ARC/INFO GIS Application to Hydrologic Modeling, with S. J. Haness, WR May/June 94, p366-381

Werick, William J.
see Whipple, William, Jr., (disc), WR Sept./Oct. 93, p531-541

Whipple, William, Jr.
disc. (of Drought and Water-Supply Management: Roles and Responsibilities., by Neil S. Grigg and Evan C. Vlachos, WR Sept./Oct. 93, p531-541) with William J. Werick, WR Nov./Dec. 94, p1003-1004

Xu, Chengchao
see Jowitt, P. W., WR Jan./Feb. 93, p18-31

Yazıcıgil, Hasan
see Başağaoğlu, Hakan, WR Nov./Dec. 94, p836-856

Yen, Ben Chie
see Mazion, Edward, Jr., WR Sept./Oct. 94, p715-734